



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-25-15 Date: 28-07-18
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should
drains, culverts and other works in ward no.05 surrounding area
Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave,
Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-07-18
Sample ID No : 2018-07-25-15 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 26-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.25	—
2	Fineness by Air permeability method (m ² /kg, Min)	285.7	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-25-15 Date: 23-08-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.

Agency : Sri. S. Kothandharaju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/48/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-15 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 26-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	57.5N/mm ²	Not less than 53 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-25-15 **Date:** 28-07-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding

Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/48/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 25-07-18

Sample ID No : 2018-07-25-15 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

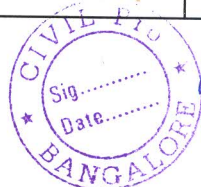
Date of test : 25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	281	281	1.9	98.1	90-100
3	20 mm	7158	7439	49.6	50.4	30-70
4	10 mm	4344	11783	78.6	21.4	10-35
5	4.75 mm	2988	14771	98.5	1.5	0-5
6	Pan	229	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-25-15

Date: 28-07-18

Sample ID No : 2018-07-25-15 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—

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Quality Manager



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As per No 5
diff. for RA
20/7/18

ಕಾರ್ಯಕ್ರಮದ ಅಧಿಕಾರಿ
ಪ್ರಾಧಿಕಾರವನ್ನು ಈ ಮೂಲಕ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-25-15 Date: 28-07-18
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-07-18
Sample ID No : 2018-07-25-15 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	2358	2547	50.9	49.1	25-55
4	4.75 mm	2150	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	-

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Certificate No.: TC- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-25-15

Date: 28-07-18

Sample ID No : 2018-07-25-15 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.53	—
6	Water Absorption(%)	0.21	—
7	Aggregate crushing Value(%)	25.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ALL WORK NO 5
ಸುಪ್ರೀಡ್
2018-07-25-15

ಸಹಾಯಕ ನಿರ್ದೇಶಕರ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-25-15 Date: 28-07-18
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-07-18
Sample ID No : 2018-07-25-15 /03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 25-07-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	155	173	17.3	82.7	60-95	75-100	85-100	95-100
4	1.18 mm	201	374	37.4	62.6	30-70	55-90	75-100	90-100
5	600 micron	196	570	57.0	43.0	15-34	35-59	60-79	80-100
6	300 micron	172	742	74.2	25.8	5-20	8-30	12-40	15-50
7	150 micron	183	925	92.5	7.5	0-10	0-10	0-10	0-15
8	Pan	75	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-25-15

Date: 28-07-18

Sample ID No : 2018-07-25-15 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.28	—
2	Specific Gravity	2.54	—
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-01-03 **Date:** 04/10/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-2018
Sample ID No : 2018-10-01-03 /05
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	27/09/2018	04/10/2018	149.54 X 151.02 X 150.31	22583	8.145	388.7	17.2	17.3
2	M20 Concrete	M20	27/09/2018	04/10/2018	150.04 X 150.67 X 151.23	22607	8.313	385.9	17.1	
3	M20 Concrete	M20	27/09/2018	04/10/2018	149.53 X 150.36 X 150.24	22483	8.142	395.1	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-01-03 **Date:** 25/10/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-2018
Sample ID No : 2018-10-01-03 /06
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	27/09/2018	25/10/2018	149.48 X 150.41 X 149.13	22484	7.951	503.6	22.4	22.0
2	M20 Concrete	M20	27/09/2018	25/10/2018	150.55 X 149.30 X 149.80	22476	8.359	492.2	21.9	
3	M20 Concrete	M20	27/09/2018	25/10/2018	151.62 X 151.86 X 150.48	23025	8.317	501.9	21.8	

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25/10/2018

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ಬಿ.ಪಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-24

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-07-30-18 Date: 01-08-18
 Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
 Address : Byatarayanapura Sub Division, BBMP, Bangalore.
 Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
 Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
 Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 30-07-18
 Sample ID No : 2018-07-30-18 /04
 Sample Type : Sunvik
 Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
 Date of test: : 31-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.39	512	651	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	615	525	670	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	546	667	20.0%	Satisfactory	Satisfactory

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 2018-07-30-18

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 ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
 ಬಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-24

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-07-30-18 Date: 03-08-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.

Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/48/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-18

Sample ID No : 2018-07-30-18 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.37	100.52	1.315	4461	103.5	23.2	21.6	27.0
2	Cover Slab-2	75.26	100.36	1.327	4448	102.9	23.1	21.5	26.9
3	Cover Slab-3	75.17	100.31	1.308	4437	101.7	22.9	21.3	26.6

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

Any correction in the report will make this report invalid

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-01-03 **Date:** 04/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.

Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/48/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-10-2018

Sample ID No : 2018-10-01-03 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	27/09/2018	04/10/2018	150.32 X 150.34 X 150.35	22599	8.345	386.4	17.1	17.0
2	M20 Concrete	M20	27/09/2018	04/10/2018	150.32 X 150.54 X 150.35	22629	8.356	389.2	17.2	
3	M20 Concrete	M20	27/09/2018	04/10/2018	150.35 X 150.24 X 150.35	22589	8.371	379.5	16.8	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-01-03 **Date:** 25/10/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-2018
Sample ID No : 2018-10-01-03 /02
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 25/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	27/09/2018	25/10/2018	150.32 X 150.34 X 150.35	22599	8.345	515.3	22.8	22.3
2	M20 Concrete	M20	27/09/2018	25/10/2018	150.32 X 150.54 X 150.35	22629	8.356	506.9	22.4	
3	M20 Concrete	M20	27/09/2018	25/10/2018	150.35 X 150.24 X 150.35	22589	8.371	490.2	21.7	

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Lab ID : CP-2018-10-01-03 Date: 04/10/2018
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Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Emergency works like JCB, tractor, labour, Debris clearance, should drains, culverts and other works in ward no.05 surrounding area Byatarayanapura Sub division.
Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-2018
Sample ID No : 2018-10-01-03 /03
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	27/09/2018	04/10/2018	151.22 X 149.67 X 151.56	22632	8.288	398.6	17.6	17.5
2	M20 Concrete	M20	27/09/2018	04/10/2018	149.75 X 151.90 X 149.19	22748	8.312	390.3	17.2	
3	M20 Concrete	M20	27/09/2018	04/10/2018	151.23 X 149.63 X 151.53	22629	8.091	400.8	17.7	

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Agency : Sri. S. Kothandaraju, Shree Chanran Constructions, #05, Bagath Enclave, Kattigehalli, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/48/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-2018
Sample ID No : 2018-10-01-03 /04
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	27/09/2018	25/10/2018	150.01 X 149.26 X 150.21	22391	8.275	510.5	22.8	22.5
2	M20 Concrete	M20	27/09/2018	25/10/2018	151.52 X 150.81 X 151.09	22851	8.382	509.6	22.3	
3	M20 Concrete	M20	27/09/2018	25/10/2018	150.80 X 150.96 X 149.50	22764	8.398	507.6	22.3	

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